

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application. An identifier indicating the status of each claim is provided.

Listing of Claims

1. (Currently Amended) A three-dimensional display apparatus, comprising:
displaying means for displaying N images that are viewed at N different viewing points, respectively;

image-forming means for forming said N images displayed by said displaying means at predetermined image-forming positions; and

light-condensing means for individually condensing said images to N observing positions that correspond to said N different viewing points, said light-condensing means being disposed at said image-forming positions at which said N images are formed,

wherein said light-condensing means comprises:

a recursive reflection-type screen means for recursively reflecting each image formed by said image-forming means; and

a half-mirror reflecting means, disposed between said image-forming means and said recursive reflection-type screen means, for condensing said recursively reflected image to said N observing positions, and

wherein said image-forming means forms images of said N viewing points from N different positions to said light-condensing means.

~~wherein said light-condensing means is a transmission-type or reflection-type
hologram screen adapted to diffract and condense images formed by said image-forming means
to said N observing positions, and~~

~~wherein said display means are vertically placed so that arrival positions of rays
of light passing through said image-forming means, which are not diffracted by said light-
condensing means, do not coincide with said N observing positions.~~

2. (Previously Presented) The three-dimensional display apparatus
according to claim 1, wherein N is three or more.

3. (Original) The three-dimensional display apparatus according to claim 1,
wherein said images of said N viewing points are images of an same object captured from N
different viewing points.

4. (Previously Presented) The three-dimensional display apparatus
according to claim 1, wherein said light-condensing means comprises a hologram screen
comprising multiple holograms or multiple holographic layers.

5. (Previously Presented) The three-dimensional display apparatus
according to claim 1, wherein said light-condensing means condenses said N images to
predetermined observing positions on a predetermined observation plane.

6. (Original) The three-dimensional display apparatus according to claim 5, wherein said predetermined observation plane is a plane that is substantially parallel to said light-condensing means.

7. (Canceled)

8. (Original) The three-dimensional display apparatus according to claim 5, wherein a gap between two or more observing positions of said N observing positions is substantially equal to a gap between eyes of a human being, said two or more observing positions being positioned on the same horizontal line of the same observation plane.

9-12. (Canceled)

13. (Currently Amended) A three-dimensional display apparatus, comprising:
displays for displaying N images that are viewed at N different viewing points,
respectively;

lenses for forming said N images displayed by said displays at predetermined
image-forming positions; and

a light-condenser for individually condensing said images to N observing
positions that correspond to said N different viewing points, said light-condenser being disposed
at said image-forming positions at which said N images are formed,

wherein said light-condenser comprises:

a recursive reflection-type screen for recursively reflecting each image
formed by said lenses; and

a half mirror, disposed between said lenses and said recursive reflection-
type screen, for condensing said recursively reflected image to said N observing positions, and
wherein said lenses form images of said N viewing points from N different
positions to said light-condenser.

~~wherein said light condenser is a transmission type or reflection type hologram~~
~~screen adapted to diffract and condense images formed by said lenses to said N observing~~
~~positions, and~~

~~wherein said displays are vertically placed so that arrival positions of rays of light~~
~~passing through said lenses, which are not diffracted by said light condenser, do not coincide~~
~~with said N observing positions.~~

14. (Canceled)